

CLAIMS:

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and optical component b
and
said optical component b
anism.
length control device for
aim 2,
moving said optical con
said optical component b
ent unit, and
said optical component b
length control device for
aim 1,
d laser controller
component by means of
the center wavelength at
and
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g said first drive mechan
of said second drive me
avelength is set at the t
the laser controller retu
neutral position.

4. The wavelength control device for the laser device in accordance with Claim 2,

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5 moves said optical component by means of said piezoelectric element unit to set the center wavelength at the predetermined target wavelength, and
compensates a positional change of said optical component caused by returning said piezoelectric element unit to a neutral
10 position by means of said pulse motor unit, in a state in which the center wavelength is set at the target wavelength, at the same time that the laser controller returns said piezoelectric element unit to the neutral position.

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wherein on resuming laser oscillation after stopping the laser oscillation for more than a predetermined period of time, said laser controller drives said second drive mechanism and thereby changes a position of said optical component with respect to the laser optical axis previously while the oscillation is stopped, based

5 on the target wavelength after resuming the oscillation, and
drives said movable holder by means of said first drive
mechanism and thereby changes the position of said optical
component with respect to the laser optical axis again,

5 immediately after resuming the oscillation, based on the center
wavelength of the laser light monitored by said wavelength
monitor.

8. The wavelength control device for the laser device in
10 accordance with any one of Claim 2, Claim 4, and Claim 6,
further comprising:

a wavelength monitor for monitoring the center
wavelength of the laser light,

15 wherein on resuming laser oscillation after stopping the
laser oscillation for more than a predetermined period of time,
said laser controller

drives said pulse motor unit and thereby changes a position of
said optical component with respect to the laser optical axis
previously while the oscillation is stopped, based on the target
20 wavelength after resuming the oscillation, and

drives said movable holder by means of said piezoelectric
element unit and thereby changes the position of said optical
component with respect to the laser optical axis again,
immediately after resuming the oscillation, based on the center
25 wavelength of the laser light monitored by said wavelength

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add B, γ